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OW protein - protein search, using sw model

Run on: December 19, 2002, 15:01.38 ; Search time 12 seconds
(Without alignments)
792.077 Million cell updates/sec

Title: US-08-813-323B-1
Perfect score: 2994
Sequence: 1 MESSKKMDAGTLQPNPPLK.....IKDDTIFIKVYDTSIDLPDP 567

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 10657 seqs, 16763532 residues

Total number of hits satisfying chosen parameters: 106657

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_AA:*

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14: /cgn2_6/ptodata/2/pubppaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length DB	ID	Description
1	2987	99.8	566	US-08-813-323A-1	Sequence 1, Appl1
2	2886.5	96.4	568	US-08-813-323A-2	Sequence 2, Appl1
3	2710	90.5	543	US-09-757-041-2	Sequence 2, Appl1
4	2102.5	70.2	438	US-09-950-902-2	Sequence 2, Appl1
5	1613	53.9	347	US-09-950-902-4	Sequence 4, Appl1
6	204	6.8	43	US-09-981-289-4	Sequence 4, Appl1
7	204	6.8	43	US-09-981-289-4	Sequence 4, Appl1
8	186.5	6.2	72	US-09-864-761-3393	Sequence 3393, A
9	150	5.0	658	US-09-764-864-818	Sequence 818, App
10	146	4.9	563	US-09-764-864-1277	Sequence 1277, App
11	144	4.8	185	US-09-949-842-19	Sequence 19, Appl1
12	142	4.7	232	US-09-998-667-1	Sequence 1, Appl1
13	133.5	4.5	2053	US-10-017-216-2	Sequence 7, Appl1
14	133	4.4	239	US-09-998-667-7	Sequence 7, Appl1
15	131.5	4.4	1641	US-10-017-216-5	Sequence 5, Appl1
16	131.5	4.4	503	US-09-764-864-835	Sequence 835, App
17	131.5	4.4	1958	US-10-028-946-4	Sequence 4, Appl1
18	131.5	4.4	2054	US-10-028-946-2	Sequence 2, Appl1
19	131.5	4.4	2139	US-09-727-384-6	Sequence 6, Appl1

20	129	4.3	245	10	US-09-998-667-9	Sequence 9, Appl1
21	127.5	4.3	343	10 <td>US-09-908-988B-6</td> <td>Sequence 6, Appl1</td>	US-09-908-988B-6	Sequence 6, Appl1
22	127	4.2	285	10 <td>US-09-764-864-841</td> <td>Sequence 841, App</td>	US-09-764-864-841	Sequence 841, App
23	126.5	4.2	829	10 <td>US-09-946-805-8</td> <td>Sequence 8, Appl1</td>	US-09-946-805-8	Sequence 8, Appl1
24	125.5	4.2	412	10 <td>US-09-925-300-1669</td> <td>Sequence 1669, App</td>	US-09-925-300-1669	Sequence 1669, App
25	125	4.2	1663	9 <td>US-09-734-672-2</td> <td>Sequence 2, Appl1</td>	US-09-734-672-2	Sequence 2, Appl1
26	125	4.2	1863	9 <td>US-09-734-672-4</td> <td>Sequence 4, Appl1</td>	US-09-734-672-4	Sequence 4, Appl1
27	125	4.2	1863	9 <td>US-09-734-672-6</td> <td>Sequence 6, Appl1</td>	US-09-734-672-6	Sequence 6, Appl1
28	124.5	4.2	677	10 <td>US-09-745-763-168</td> <td>Sequence 168, App</td>	US-09-745-763-168	Sequence 168, App
29	124.5	4.2	1138	10 <td>US-09-767-215-5</td> <td>Sequence 5, Appl1</td>	US-09-767-215-5	Sequence 5, Appl1
30	124	4.1	2055	9 <td>US-10-017-216-4</td> <td>Sequence 4, Appl1</td>	US-10-017-216-4	Sequence 4, Appl1
31	122.5	4.1	600	10 <td>US-09-975-901-2</td> <td>Sequence 2, Appl1</td>	US-09-975-901-2	Sequence 2, Appl1
32	122	4.1	228	10 <td>US-09-998-667-8</td> <td>Sequence 8, Appl1</td>	US-09-998-667-8	Sequence 8, Appl1
33	122	4.1	231	10 <td>US-09-925-301-1306</td> <td>Sequence 1306, App</td>	US-09-925-301-1306	Sequence 1306, App
34	122	4.1	231	10 <td>US-09-764-864-837</td> <td>Sequence 837, App</td>	US-09-764-864-837	Sequence 837, App
35	122	4.1	231	10 <td>US-09-764-864-1292</td> <td>Sequence 1292, App</td>	US-09-764-864-1292	Sequence 1292, App
36	121.5	4.1	629	10 <td>US-09-833-790-429</td> <td>Sequence 429, App</td>	US-09-833-790-429	Sequence 429, App
37	120	4.0	1597	9 <td>US-10-017-216-6</td> <td>Sequence 6, Appl1</td>	US-10-017-216-6	Sequence 6, Appl1
38	119.5	4.0	366	10 <td>US-09-764-864-808</td> <td>Sequence 808, App</td>	US-09-764-864-808	Sequence 808, App
39	119.5	4.0	435	10 <td>US-09-866-582-33</td> <td>Sequence 33, Appl1</td>	US-09-866-582-33	Sequence 33, Appl1
40	119	4.0	1239	12 <td>US-10-007-805-577</td> <td>Sequence 577, App</td>	US-10-007-805-577	Sequence 577, App
41	118	3.9	708	10 <td>US-09-764-864-954</td> <td>Sequence 954, App</td>	US-09-764-864-954	Sequence 954, App
42	118	3.9	945	10 <td>US-09-745-763-191</td> <td>Sequence 191, App</td>	US-09-745-763-191	Sequence 191, App
43	118	3.9	1175	10 <td>US-09-771-161A-224</td> <td>Sequence 224, App</td>	US-09-771-161A-224	Sequence 224, App
44	118	3.9	1175	10 <td>US-09-771-161A-225</td> <td>Sequence 225, App</td>	US-09-771-161A-225	Sequence 225, App
45	118	3.9	1175	10 <td>US-09-771-161A-226</td> <td>Sequence 226, App</td>	US-09-771-161A-226	Sequence 226, App

ALIGNMENTS

RESULT 1
US-08-813-323A-1
Sequence 1, Application US/08813323A
Patent No. US20020031522A1
GENERAL INFORMATION:
APPLICANT: Baltimore, David
APPLICANT: Cheng, Genhong
APPLICANT: Cleary, Aileen
APPLICANT: Lederman, Seth
APPLICANT: Ye, Zheng-sheng
TITLE OF INVENTION: TRUNCATED CRAF1 INHIBITS CD40 SIGNALING
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSEE: Cooper & Dunham, LLP
STREET: 1185 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/813,323A
FILING DATE:
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: White, John P
REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 50659
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 278-0400
TELEFAX: (212) 391-0525
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 566 amino acids
TYPE: amino acid
STRANDEDNESS: Single
TOPOLOGY: linear
MOLECULE TYPE: Peptide

FEATURE:
NAME/KEY: Peptide
LOCATION: 1..566
US-08-813-323A-1

Query Match 99.8%; Score 2987; DB 8; Length 566;
Best Local Similarity 100.0%; Pred. No. 1,3e-208;
Matches 566; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MESSKKMDAAGTLQPNPRLKLPDRGAGSVLVEGQGYKKEFYKVEDKCKECLVLC 60
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D 121 RCGAEQTLTGLHLVHLKNECOFELPCLRADCKEYLRKDLRDHVEKACKYREATCSHC 180
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D 301 IEROKEMLRNNESEKILHLQRYIDSOAEKLELDEKIRPFQONWEADSMKSSVESIQNR 360
QY 361 TELESVDKSAQAARNTGLLESQLSRHDQTLVSHDIRLADMDLRFVYLEASTYNGVLIW 420
D 361 TELESVDKSAQAARNTGLLESQLSRHDQTLVSHDIRLADMDLRFVYLEASTYNGVLIW 420
QY 421 IRDVKRRKQEAHVNGKTLSTLSQPTTYGFGYKMCARVYILNGDMGKTHLSLFEVIMRG 480
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QY 481 YDALLPMPFKOKVTLMLMDGSSRRHLGDAFKPDPNSSSKKPTGEMNIASGCPVEVAQ 540
D 481 YDALLPMPFKOKVTLMLMDGSSRRHLGDAFKPDPNSSSKKPTGEMNIASGCPVEVAQ 540
QY 541 VLENGTYIKDDTIFIKYIVDTSLDP 566
D 541 VLENGTYIKDDTIFIKYIVDTSLDP 566

RESULT 2
US-08-813-323A-2
Sequence 2, Application US/08813323A
Patent No. US20020031522A1
GENERAL INFORMATION:
APPLICANT: Baltimore, David
APPLICANT: Cheng, Genhong
APPLICANT: Cleary, Aileen
APPLICANT: Lederman, Seth
APPLICANT: Ye, Zheng-sheng
TITLE OF INVENTION: TRUNCATED CRAFT INHIBITS CD40 SIGNALING
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSEE: Cooper & Dunham, LLP
STREET: 1185 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/813,323A
FILING DATE:
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: White, John P
REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 50659
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 278-0400
TELEFAX: (212) 391-0525
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 568 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
NAME/KEY: Peptide
LOCATION: 1..568
US-08-813-323A-2

Query Match 96.4%; Score 2886.5; DB 8; Length 568;
Best Local Similarity 96.1%; Pred. No. 2.5e-201;
Matches 546; Conservative 7; Mismatches 14; Indels 1; Gaps 1;

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D 120 GRCAEQTLTGLHLVHLKNECOFELPCLRADCKEYLRKDLRDHVEKACKYREATCSHC 180
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D 240 OGFTMOQIKAHASSAVOHVNLKEMSNLEKKTSLQNESVEKNKSIOSLHNOICSEFI 300
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D 300 IEROKEMLRNNESEKILHLQRYIDSOAEKLELDEKIRPFQONWEADSMKSSVESIQNR 360
QY 360 VTELESVDKSAQAARNTGLLESQLSRHDQTLVSHDIRLADMDLRFVYLEASTYNGVLIW 419
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D 420 KIRDYKRRKQEAHVNGKTLSTLSQPTTYGFGYKMCARVYILNGDMGKTHLSLFEVIMRG 480
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QY 540 TVLENGTYIKDDTIFIKYIVDTSLDP 567
D 540 TVLENGTYIKDDTIFIKYIVDTSLDP 568

RESULT 3
US-09-757-041-2
Sequence 2, Application US/09757041
Patent No. US20020009726A1

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: GENERAL INFORMATION:
: APPLICANT: Reed, John C.
: APPLICANT: Sato, Takaaki
: TITLE OF INVENTION: Cda4 Associated Proteins
: NUMBER OF SEQUENCES: 17
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Campbell and Flores
: STREET: 4370 La Jolla Village Drive, Suite 700
: CITY: San Diego
: STATE: California
: COUNTRY: USA
: ZIP: 92122
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patent Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/09/757,041
: FILING DATE:
: CLASSIFICATION:
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/349,357
: FILING DATE:
: ATTORNEY/AGENT INFORMATION:
: NAME: Campbell, Cathryn A.
: REGISTRATION NUMBER: 31,815
: REFERENCE/DOCKET NUMBER: P-LJ 1203
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (619) 535-9001
: TELEFAX: (619) 535-8949
: INFORMATION FOR SEQ ID NO: 2:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 543 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: protein
: US-09-757-041-2

Query Match          90.5%; Score 2710; DB 10; Length 543;
Best Local Similarity 91.4%; Pred. No. 1.3e-188;
Matches 519; Conservative 7; Mismatches 16; Indels 26; Gaps 2;

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 121 SRGCAEQTLTGLHLVHLKNECOFEELPCLRADCKEYLRKDLRDHYEACKYREATCSHC 180
 121 SRGCAEQTLTGLHLVHLKNECOFEELPCLRADCKEYLRKDLRDHYEACKYREATCSHC 180
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 218 --GTNOQIKAHESASAVOHVNLKEMNSLEKRVSLQNESVEKKNKSIQSLHNOICSEFI 275
 300 EIEROKEMLRNNEKTLHLOVYIDSOAEKLELDEKREIRPFQONNEEADSMKSSVESIQNR 359
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 360 VTELESVDKSAGQAARNTGLLESQLSRHQDTLSVHDIRLADMDLRFQVLETASYNGVLIN 419
 336 VTELESVDKSAGQAARNTGLLESQLSRHQDTLSVHDIRLADMDLRFQVLETASYNGVLIN 395
 420 KIRDYKRRKOEAVMGKTLISYQPFYTGFGYKMCARVYLNGDMGKGTSLSEFVIMRG 479

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Db 396 KIRDYKRRKOEAVMGKTLISYQPFYTGFGYKMCARVYLNGDMGKGTSLSEFVIMRG 455
Qy 480 EYDALLPMPFKOKVTLMLMDGSSRRHLGDAFKPDPNSSSKPKPTGEMTASGCPVFAQ 539
Db 456 EYDALLPMPFKOKVTLMLMDGSSRRHLGDAFKPDPNSSSKPKPTGEMTASGCPVFAQ 515
Qy 540 TVLENGTYIKDDTIFIRIVYDTSDDPP 567
Db 516 TVLENGTYIKDDTIFIRIVYDTSDDPP 543

RESULT 4
US-09-950-902-2
: Sequence 2, Application US/09950902
: Patent No. US20020127615A1
: GENERAL INFORMATION:
: APPLICANT: The Trustees of Columbia University in the City of
: TITLE OF INVENTION: TRAF-3 DELETION ISOFORMS AND USES THEREOF
: FILE REFERENCE: 58732-A-PC
: CURRENT APPLICATION NUMBER: US/09/950,902
: CURRENT FILING DATE: 2001-09-10
: PRIOR APPLICATION NUMBER: PCT/US00/06503
: PRIOR FILING DATE: 2000-03-10
: PRIOR APPLICATION NUMBER: 09/268,544
: PRIOR FILING DATE: 1999-03-11
: NUMBER OF SEQ ID NOS: 14
: SOFTWARE: Patent In Ver. 2.1
: SEQ ID NO 2
: LENGTH: 438
: TYPE: PRT
: ORGANISM: Isolated TRAF-3 deletion isoform protein
: US-09-950-902-2

Query Match          70.2%; Score 2102.5; DB 10; Length 438;
Best Local Similarity 72.9%; Pred. No. 8.6e-145;
Matches 415; Conservative 7; Mismatches 14; Indels 133; Gaps 4;

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1 MESSKKMDAGTLPNPPLKLPDRGAGS-VLYPEGGYKKEKFKVTEDEYKCEKCHLV 59
 1 MESSKKMDSPGALQTPPLKLTDRSAGTPVFPDGGYKKEKFKVTEDEYKCEKCHLV 60
 60 CNPKOTEGHFRFCESCMALLSSSPKCTACQESIIRKDFKDNCKREILALQVYCRNE 119
 61 CSPKOTEGHFRFCESCMALLSSSPKCTACQESIIRKDFKDNCKREILALQVYCRNE 120
 120 GRGCAEQTLTGLHLVHLKNECOFEELPCLRADCKEYLRKDLRDHYEACKYREATCSHC 179
 121 SRGCAEQTLTGLHLVHLKNECOFEELPCLRADCKEYLRKDLRDHYEACKYREATCSHC 180
 180 KSOVPMIKLQKHEDTDCPCVYVSCPHKCSVOTLLRSELSAHLSECVNAPSTCSFRKGCY 239
 181 KSOVPMIAQLKHEDTDCPCVYVSCPHKCSVOTLLRSELSAHLSECVNAPSTCSFRKGCY 239
 240 FQGTNOQIKAHESASAVOHVNLKEMNSLEKRVSLQNESVEKKNKSIQSLHNOICSEFI 299
 189 -----LQRYIDSOAEKLELDEKREIRPFQONNEEADSMKSSVESIQNR 188
 300 EIEROKEMLRNNEKTLHLOVYIDSOAEKLELDEKREIRPFQONNEEADSMKSSVESIQNR 359
 189 -----LQRYIDSOAEKLELDEKREIRPFQONNEEADSMKSSVESIQNR 230
 360 VTELESVDKSAGQAARNTGLLESQLSRHQDTLSVHDIRLADMDLRFQVLETASYNGVLIN 419
 231 VTELESVDKSAGQAARNTGLLESQLSRHQDTLSVHDIRLADMDLRFQVLETASYNGVLIN 290
 420 KIRDYKRRKOEAVMGKTLISYQPFYTGFGYKMCARVYLNGDMGKGTSLSEFVIMRG 478
 291 KIRDYKRRKOEAVMGKTLISYQPFYTGFGYKMCARVYLNGDMGKGTSLSEFVIMRG 349
 479 GEYDALLPMPFKOKVTLMLMDGSSRRHLGDAFKPDPNSSSKPKPTGEMTASGCPVFA 538
 350 GEYDALLPMPFKOKVTLMLMDGSSRRHLGDAFKPDPNSSSKPKPTGEMTASGCPVFA 409

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QY      539 QTVLENGTYIKDDTIFIKIVIVDTSDDLDP 567
          |||||
Db      410 QTVLNENGTYYIKDDTIFIKIVIVDTSDDLDP 438
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RESULT 5
 US-09-950-902-4
 : Sequence 4, Application US/099500902
 : Patent No. US20020127615A1
 : GENERAL INFORMATION:
 : APPLICANT: The Trustees of Columbia University in the City of
 : TITLE OF INVENTION: TRAF-3 DELETION ISOFORMS AND USES THEREOF
 : FILE REFERENCE: 58732-A-PCT
 : CURRENT APPLICATION NUMBER: US/09/950,902
 : CURRENT FILING DATE: 2001-09-10
 : PRIOR APPLICATION NUMBER: PCT/US00/06503
 : PRIOR FILING DATE: 2000-03-10
 : PRIOR APPLICATION NUMBER: 09/268,544
 : PRIOR FILING DATE: 1999-03-11
 : NUMBER OF SEQ ID NOS: 14
 : SOFTWARE: PatentIn Ver. 2.1
 : SEQ ID NO 4
 : LENGTH: 347
 : TYPE: PRT
 : ORGANISM: isolated TRAF-3 deletion isoform protein
 : US-09-950-902-4

Query Match	53.98;	Score 1613;	DB 10;	Length 347;
Best Local Similarity	58.58;	Pred. No. 1.6e-109;		
Matches 332; Conservative	4;	Mismatches 10;	Indels 222;	Gaps 2

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QY	60	CNPKQTEGCHRFCESCMAALLSSSPKCTAOSESITKDKVFKDNCCKREPIALQVYCRNE	119
Db	61	CSRKQTECHRFCESCMAALLSSSPKCTAOSESIVKDK-----	99
QY	120	GRGCAEQLTLGHLVLKNECQFELPCLNADCKEKVLRKDLRDHXYAKCKREATGSHC	179
Db	100	-----	99
QY	180	KSOVPWKLOQKHEDTDCPVVSCPHKCSYOTLLRSELSAHLSECVNAPSTCSFRRYGCV	239
Db	100	-----	99
QY	240	FOGTNOQIKAEHSAVQHVNLKEMWSNLSLEKKVSLLOQNESEYKKNKSTQSLHQICSPFI	299
Db	100	-----	99
QY	300	ETIEROKEMLRNNESSKIILHLOVYIDSOAEKLELDKKEIRPFRONWEADSMKSVSYESLONR	359
Db	100	-----RVIDSOAEKLELDKEIRPFRONWEADSMKSVSYESLONR	139
QY	360	VPELESYDKSAGQARNRGTLESLSHRDITLSVHDIRLADMDLRFQVLEFASVNGVLIW	419
Db	140	VPELESYDSSAQVARNRGTLESLSHRDITLSVHDIRLADMDLRFQVLEFASVNGVLIW	199
QY	420	KIRDYRRRKOEAVMKCTLSTISQPFYTGYGFKMCAVYLLNDGDKGKSTHTLSFLFVIMRG	479
Db	200	KIRDYRRRQGEAVMKCTLSTISQPFYTGYGFKMCAVYLLNDGDKGKSTHTLSFLFVIMRG	259
QY	480	EYDALLPWFQKQVYLLMDGSSRRHLGDAFKPDPNSSSFKKPYGEMNINASGCPVFAO	539
Db	260	EYDALLPWFQKQVYLLMDGSSRRHLGDAFKPDPNSSSFKKPYGEMNINASGCPVFAO	319
QY	540	TVLENGTVIKDPTIFIKIVYDTSLDPDP	567
Db	320	TVLENGTVIKDPTIFIKIVYDTSLDPDP	347
RESULT	6		

RESULT 6

US-09-798-789-4
Sequence 4, Application US/09798789
Patent No. US20020009780A1
GENERAL INFORMATION:
APPLICANT: Dahiyat, Bassil
APPLICANT: Filikov, Anton
TITLE OF INVENTION: DESIGN AND DISCOVERY OF PROTEIN BASED TNF-ALPHA
TITLE OF INVENTION: VARIANTS FOR THE TREATMENT OF TNF-ALPHA RELATED
DISEASES
FILE REFERENCE: A-68990-1/RFT/MS/RMK
CURRENT APPLICATION NUMBER: US/09/798, 789
CURRENT FILING DATE: 2001-03-02
PRIOR APPLICATION NUMBER: US 60/186,427
PRIOR FILING DATE: 2000-03-02
NUMBER OF SEQ ID NOS: 22
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 4
LENGTH: 43
TYPE: PRT
ORGANISM: Homo sapiens
US-09-798-789-4

Query Match	6.88;	Score 204;	DB 10;	Length 43;
Best Local Similarity	97.68;	Pred. No. 8.3e-09;		
Matches 41;	Conservative	0;	Mismatches 1;	Indels 0;
				Gaps 0;

```

QY 374 ARNTGLLESLSRKDQTLVSVDRLADMDLRQVLETSYNG 415
      |||||
Db 2 ARNTGLLESLSRKDQTLVSVDRLADMDLRQVLETSYNG 43

```

```

RESULT 7
US-09-981-289-4
; Sequence 4, Application US/09981289
; Patent No. US20020110868A1
; GENERAL INFORMATION:
; APPLICANT: Dahiyat, Bassil I.
; APPLICANT: Filikov, Anton
; TITLE OF INVENTION: DESIGN AND DISCOVERY OF PROTEIN BASED TNF-ALPHA FOR THE TREATMENT
; FILE REFERENCE: A-68990-3/RET/RMS/RMK
; CURRENT APPLICATION NUMBER: US/09/981,289
; CURRENT FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: US 60/186,427
; PRIOR FILING DATE: 2000-03-02
; PRIOR APPLICATION NUMBER: US 09/945,150
; PRIOR FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: US 09/798,789
; PRIOR FILING DATE: 2001-03-02
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 4
; LENGTH: 43
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-981-289-4

```

Query Match	6.88;	Score 204;	DB 10;	Length 43;
Best Local Similarity	97.68;	Pred. No. 8.3e-09;		
Matches 41; Conservative	0;	Mismatches 1;	Indels 0;	Gaps 0;

```
QY      374 ARNTGLLEQSLSRDQTLSVHDIRLADMDLRQVLETASYNG 415
        |||||
Db       2 ARNTGLLEQSLSRDQMSVHDIRLADMDLRQVLETASYNG 43
```

RESULT 8
US-09-864-761-33993
Sequence 33993, Application US/09864761
Patent No. US20020048765A1
GENERAL INFORMATION:
APPLICANT: Penn, Sharon G.
APPLICANT: Rank, David R.

```

APPLICANT: Hanzel, David K.
APPLICANT: Chen, Wensheng
TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
FILE REFERENCE: Aecm1ca-X-1
CURRENT APPLICATION NUMBER: US/09/864,761
CURRENT FILING DATE: 2001-05-23
PRIOR APPLICATION NUMBER: US 60/180,312
PRIOR FILING DATE: 2000-02-04
PRIOR APPLICATION NUMBER: US 60/207,456
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: US 09/632,366
PRIOR FILING DATE: 2000-08-03
PRIOR APPLICATION NUMBER: GB 24263.6
PRIOR FILING DATE: 2000-10-04
PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: PCT/US01/00666
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00667
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00664
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00665
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00668
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00663
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00662
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00661
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00670
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: US 60/234,687
PRIOR FILING DATE: 2000-09-21
PRIOR APPLICATION NUMBER: US 09/608,408
PRIOR FILING DATE: 2000-06-30
PRIOR APPLICATION NUMBER: US 09/774,203
PRIOR FILING DATE: 2001-01-29
NUMBER OF SEQ ID NOS: 49117
SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
SEQ ID NO 33993
LENGTH: 72
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: MAP TO AC006430.15
OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.6
OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 1.2
OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.4
OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.3
OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 1.1
OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.3
OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 1.2
OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.8
OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.2
OTHER INFORMATION: EST_HUMAN HIT: AM136067.1, EVALUATE 1.00e-18
OTHER INFORMATION: SWISSPROT HIT: Q13077, EVALUATE 3.00e-37
US-09-864-761-33993

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Query Match 6.2%; Score 186.5; DB 10; Length 72;
Best Local Similarity 51.4%; Pred. No. 2.9e-07;
Matches 37; Conservative 17; Mismatches 15; Indels 3; Gaps 2;

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QY 493 VTLMDOGSSRRHLDGAFKPDPPSSFFKPTGEMNIASGCPVFAQTVLEN--GTYYIND 550
DB 1 VTFFMLDD-NNREHAIIDAFRDLSSASFQROSETINVASCPLEFFLSKDKSPKHAHYVD 59

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QY 551 DTIRKIVDTSS 562
DB 60 DTFFLKCIVETS 71

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RESULT 9
US-09-764-864-818
Sequence 818, Application US/09764864
Patent No. US20020132753A1
GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
FILE REFERENCE: PT23
CURRENT APPLICATION NUMBER: US/09/764,864
CURRENT FILING DATE: 2001-01-17
Prior application data removed - consult PALM or file wrapper
NUMBER OF SEQ ID NOS: 1792
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 818
LENGTH: 658
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: SITE
LOCATION: (5)
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
NAME/KEY: SITE
LOCATION: (48)
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
NAME/KEY: SITE
LOCATION: (64)
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
NAME/KEY: SITE
LOCATION: (71)
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-764-864-818

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Query Match 5.0%; Score 150; DB 10; Length 658;
Best Local Similarity 19.2%; Pred. No. 0.0021;
Matches 69; Conservative 71; Mismatches 104; Indels 116; Gaps 17;

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QY 50 YKCEKRLVLCNPKQTECHRCESCMALLSSSPKTAOESLIKDKVDCCKREI 109
DB 362 FECSLCMRLEFEPVTPGCHSFCKNCLERCL-DHAPYPLCKESL-----KEY 408
QY 110 IALQVYCRNEGKCAEQLTLGLHLVHLNKECOFEBELPCLRADCKEYLRKLDHVEKAC 169
DB 409 LA-----DRKVCYQLL-----ELIVKYLPELSEK 436
QY 170 K-YREATC--SHCKSOVPM-ITLQKHEDTDCPCVYVSCPHKCSVOTLLRSLSHLSRCV 225
DB 437 KIYDEFAELSHLTKNVPFVCTMAVPTVPCPLHVEPRYRLMIRSIQTG-TKQFGMCV 495
QY 226 NAPTSCFRRYGVCFVGTQNOQIKAEASAVOHVILKEMSNLSL---KVSILQNESV 281
DB 496 SDQN-SFADYGMQL-----IRNVHLPGRSVDTVGKRRVYLK---- 536
QY 282 EKNKSIOSLHNOICSEIEIEROKEMLRNNESKILHLQVID---SQA-----EKKELDK 334
DB 537 -----RGMKDYCT--ADIEYLEDVAKVENEDEIKMLRELHDLVYSQACSWFQNLDRFR 588
QY 335 E--IRPRQWMEADSMKS-----SVESIQNRVTELESV 366
DB 589 SQIQRHFGSMPEBENIQANPNQPMACWMLLAVLPVDPRTQSLVYSMSLSKRLKIKIHI 648

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RESULT 10
US-09-764-864-1277
Sequence 1277, Application US/09764864
Patent No. US20020132753A1
GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies

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; FILE REFERENCE: PT223
; CURRENT APPLICATION NUMBER: US/09/764,864
; CURRENT FILING DATE: 2001-01-17
; PRIOR APPLICATION DATA REMOVED - CONSULT PALM OR FILE WRAPPER
; NUMBER OF SEQ ID NOS: 1792
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1277
; LENGTH: 563
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (6)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (10)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (40)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (42)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (43)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (54)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (145)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (146)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; US-09-764-864-1277

Query Match
Best Local Similarity 4.9%; Score 146; DB 10; Length 563;
Matches 61; Conservative 52; Mismatches 91; Indels 84; Gaps 14;

QY 50 YKCEKRLVLCNPKQTEGHRFCSCMAALLSSSPKCTACQESIIRKDYKFNCKCKREI 109
DB 302 FECSLCMLTFEPVTPGSHFCNCELRCL-DHAPYCPCKESL-----KEY 348
QY 110 LALQVYCRNMGRCAPQLTLGHLVLHKNKCOFEELPCLRADCKEYLRKDLRDHYEKAC 169
DB 349 LA-----DPRYCVTOLL-----EELIYKLPDELSEK 376
QY 170 K-YREATC--SHCKSOYPM-INKQKHEDTDCPCVYVSCPHKCSVQTLRLSELSEHSECV 225
DB 377 KIYDEETAEIASHLTKNVPIVCTMAVPTVPCPLHVEPRYRLMIRRSIQTG-TKQFGMCV 435
QY 226 NAPTSCFKRYGCVFQGTNOQIKAHNSASAVHNLEKMSNLE---KVSLLONESV 281
DB 436 SDTON-SFADYGCMLQ-----IRVHFLPDRGRSVVDVGGKRRRVLK---- 476
QY 282 EKNKSISLINOJCSFEIETEROKEMIRNNEKSLIHLQYVID--SQA 326
DB 477 -----GKMKDGYCT-ADIEYLEDVKNEDIEIKMLREIHLVVSQA 516

RESULT 11
US-09-949-842-19
; Sequence 19, Application US/09949842
; Patent No. US2002016492A1
; GENERAL INFORMATION:
; APPLICANT: NI et al.
; TITLE OF INVENTION: PT047P1
; FILE REFERENCE: Immune System-Related Polynucleotides, Polypeptides, and Antibodies
; CURRENT APPLICATION NUMBER: US/09/949,842
; CURRENT FILING DATE: 2001-09-02
; PRIOR APPLICATION NUMBER: PCT/US01/07260

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; PRIOR FILING DATE: 2001-03-07
; PRIOR APPLICATION NUMBER: 60/224,367
; PRIOR FILING DATE: 2000-08-11
; PRIOR APPLICATION NUMBER: 60/187,873
; PRIOR FILING DATE: 2000-03-08
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 19
; LENGTH: 185
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-949-842-19

Query Match
Best Local Similarity 4.8%; Score 144; DB 9; Length 185;
Matches 45; Conservative 23; Mismatches 68; Indels 54; Gaps 4;

QY 50 YKCEKRLVLCNPKQTEGHRFCSCMAALLSSSPKCTACQESIIRKDYKFNCKCKREI 109
DB 35 FDCAVCLEVLIHQPVTRTGGHVFCSCTATSLKNNKWTCPYCRAYLPSEGVATDVAKR-- 92
QY 110 LALQVYCRNMGRCAPQLTLGHLVLHKNKCOFEELPCLRADCKEYLRKDLRDHYEKAC 169
DB 93 -----MKSEYKNCAE-----CDTLVCLSEMAHRIITCQ 120
QY 170 KYREATCSHCKSOYPMILQKHEDTDCPCVYVSCPHKCSVQTLRLSELSEHSECV 223
DB 121 KRID-----KYGPLDELEETARCYVCFQCRRLYEDSLDHCITTHRSERRPVVR 170
QY 224 ----CVNAPS 229
DB 171 IFVICITAMS 180

RESULT 12
US-09-998-667-1
; Sequence 1, Application US/09998667
; Patent No. US20020146747A1
; GENERAL INFORMATION:
; APPLICANT: Masuda, Esteban
; APPLICANT: Zhao, X. Charlene
; APPLICANT: Chiu, Peter
; APPLICANT: Pardo, Jorge
; APPLICANT: Rigel Pharmaceuticals, Incorporated
; TITLE OF INVENTION: TRAC1: Modulators of Lymphocyte Activation
; FILE REFERENCE: 021044-000600US
; CURRENT APPLICATION NUMBER: US/09/998,667
; CURRENT FILING DATE: 2001-12-03
; PRIOR APPLICATION NUMBER: US 60/282,432
; PRIOR FILING DATE: 2001-04-06
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: Patentln Ver. 2.1
; SEQ ID NO 1
; LENGTH: 232
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: human wild-type TRAC1 (FLJ20456)
; US-09-998-667-1

Query Match
Best Local Similarity 4.7%; Score 142; DB 10; Length 232;
Matches 45; Conservative 22; Mismatches 73; Indels 46; Gaps 4;

QY 50 YKCEKRLVLCNPKQTEGHRFCSCMAALLSSSPKCTACQESIIRKDYKFNCKCKREI 109
DB 35 FDCAVCLEVLIHQPVTRTGGHVFCSCTATSLKNNKWTCPYCRAYLPSEGVATDVAKR-- 92
QY 110 LALQVYCRNMGRCAPQLTLGHLVLHKNKCOFEELPCLRADCKEYLRKDLRDHYEKAC 169
DB 93 -----MKSEYKNCAE-----CDTLVCLSEMAHRIITCQ 120

```

QY 170 KYREATGCHCKSQVPMIKLOKHEDTDCPCVYVSCPHKCSVQTLRLSELNHLSECVNAPS 229
 DB 121 KYID-----KYGLOLEETARACVCPFCQRELYEDSLDHCITIHRSR--RRPV 168
 QY 230 TCSEFR 235
 DB 169 FCPICR 174

RESULT 13

US-10-017-216-2

Sequence 2, Application US/10017216

Patent No. US20020160483A1

GENERAL INFORMATION:

APPLICANT: KAPELLER-LIBERMANN, Rosana

TITLE OF INVENTION: 13245, A No. US20020160483A1el Human Myotonic Dystrophy Type Prot

TITLE OF INVENTION: Kinase and Uses Therefor

FILE REFERENCE: 10147-5701

CURRENT APPLICATION NUMBER: US/10/017, 216

PRIORITY FILING DATE: 2001-10-23

PRIORITY FILING DATE: 2001-10-23

NUMBER OF SEQ ID NOS: 7

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 2

LENGTH: 2053

TYPE: PRT

ORGANISM: Homo sapiens

US-10-017-216-2

Query Match 4.58; Score 133.5; DB 9; Length 2053;
 Best Local Similarity 22.48; Pred. No. 0.14;

Matches 104; Conservative 77; Mismatches 154; Indels 129; Gaps 23;

QY 1 MESSKMDAAGTLPNPPLKLPDRGAGSVLPVPEOGGYEKEFKVTEDEKCKECLVLC 60
 DB 526 MEVSQEDDKA-----LQLLHD-----IREQ-SRLQETIKQETQAOVEEMRLMMN 569
 QY 61 NPROTECGHR-----FCSCMAALLSSSPKCTAQOESIIKDKVFNCKCKREILA 111
 DB 570 QLEEDLVARRRSDLYESELRESRLA--EEFKRRAKTECQHKLKAK-----614
 QY 112 LQVYCNREGCAEQTLGLHLVHLKNEQCFELPCLRADCKEKVLRKDLRDHYEKACKY 171
 DB 615 -----DQGR-----PEVGEYAKLEKIKNAEQOLKI--OELQEKLEKAKE 651
 QY 172 REATGCHCKSQVPMIKLOKHEDTDCPCVYVSCPHKCSVQTLRLSELNHLSECVNAPS 230
 DB 652 R-----AERELEKIQNREDS-----EGIRKILVEAERHSHLENKVKHLET 693
 QY 231 CSFK--RYGCVFOGTNOOI-----KAHFSASAVOHVNL-LKEMSNSLEKRVSL 275
 DB 694 MERREKRLADJOQTSQOIQONADKILELEEKHREAOVSACHLEVHLKQKQCHYEERIKY 753
 QY 276 LONESYENKKSIOSLHNOICSPFEI-----IEROKEMLRNNSKILHL-ORVID-SQA 326
 DB 754 LNOQIKDLADKETLENNMQRREEEAHKGIKILSEOKAMIANMSKIRSLSEORIVELSEA 813
 QY 327 EKL-----KELDKETLRPRQWMEADSNKSSVESILQNRVTELESVDKSAQO-- 372
 DB 814 NPLAANSLEFQTRNMKAQEEIMSELQKQKFFLETOAGKLEA-QNRKLE-EQLEKISHQDH 871
 QY 373 AARN-----TGLLESQLSRHDQTLVSDIRLADMDLRFQVLET 410
 DB 872 SDKNRLLELETRLRVSLSEHEQKLELR-QUTELQSLQERES 914

RESULT 14

US-09-998-667-7

Sequence 7, Application US/09998667

Patent No. US20020146747A1

GENERAL INFORMATION:

APPLICANT: Masuda, Esteban

APPLICANT: Liao, X. Charlene

APPLICANT: Zhao, Haoran

APPLICANT: Chu, Peter

APPLICANT: Pardo, Jorge

APPLICANT: Rigel Pharmaceuticals, Incorporated

TITLE OF INVENTION: TRAC1 Modulators of Lymphocyte Activation

FILE REFERENCE: 021044-00060005

CURRENT APPLICATION NUMBER: US/09/998, 667

CURRENT FILING DATE: 2001-12-03

PRIORITY FILING DATE: 2001-04-06

NUMBER OF SEQ ID NOS: 18

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 7

LENGTH: 239

TYPE: PRT

ORGANISM: Mus sp.

FEATURE: OTHER INFORMATION: mouse TRAC1 protein (3rd frame)

NAME/KEY: MOD_RES

LOCATION: (3)

OTHER INFORMATION: Xaa = Arg or Ser

FEATURE:

NAME/KEY: MOD_RES

LOCATION: (4)

OTHER INFORMATION: Xaa = Met, Val or Leu

US-09-998-667-7

Query Match 4.48; Score 133; DB 10; Length 239;
 Best Local Similarity 23.38; Pred. No. 0.0099;

Matches 52; Conservative 27; Mismatches 78; Indels 66; Gaps 8;

QY 2 ESSKMDAAGTLPNPPLKLPDRGAGSVLPVPEOGGYEKEFKVTEDEKCKECLVLCN 61
 DB 11 DSSKSPASAT-----PRTL-----ERSGDSLEPLTS-----FDSVCLVLIHQ 49
 QY 62 PROTEGHRFCSCMAALLSSSP-KCTACQESTIKDKVFNCKCKREILAQVYCNREG 120
 DB 50 PVATRGHVFCSCLNTSITKNNMKTCPCYCRAYLPSEGVPTDIAR-----MKSEY 101
 QY 121 RGCAEQTLGLHLVHLKNEQCFELPCLRADCKEKVLRKDLRDHYEKACKYREATGCHCK 180
 DB 102 QNCAE-----CGTLYCLSDMKRAHIRCEKIYD-----128
 QY 181 SQVPMIKLOKHEDTDCPCVYVSCPHKCSVQTLRLSELNHLSECVNAPS 223
 DB 129 KYGPLEL--GDTTARCVCPFCQRELYEDSLDHCITIHRSR 168

RESULT 15

US-10-017-216-5

Sequence 5, Application US/10017216

Patent No. US20020160483A1

GENERAL INFORMATION:

APPLICANT: KAPELLER-LIBERMANN, Rosana

TITLE OF INVENTION: 13245, A No. US20020160483A1el Human Myotonic Dystrophy Type P

TITLE OF INVENTION: Kinase and Uses Therefor

FILE REFERENCE: 10147-5701

CURRENT APPLICATION NUMBER: US/10/017, 216

PRIORITY FILING DATE: 2001-10-23

PRIORITY FILING DATE: 2001-10-23

NUMBER OF SEQ ID NOS: 7

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 5

LENGTH: 1641

TYPE: PRT

ORGANISM: Mus musculus

US-10-017-216-5

Query Match 4.48; Score 133; DB 9; Length 1641;
 Best Local Similarity 23.78; Pred. No. 0.11;

